AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Withdrawn Currently Amended) A method for treating a puncture in a vein or artery resulting from a cardiac catheterization procedure in a patient, comprising:
- a) applying topically to the patient's skin over a catheter exit site a composition comprising an effective amount of a <u>one or more</u> vasoconstrictor, wherein the vasoconstrictor does not comprise a poly- β -1 \rightarrow 4 N-acetylglucosamine polymer or derivative thereof, and wherein the catheter exit site is contiguous with the catheter puncture in the vein or artery by 1-10 cm; and concurrently
- b) applying compression to the punctured vein or artery, wherein a cessation or reduction of blood flow out of the breach or puncture in the vein or artery is achieved in 30%-50% less time than applying compression in conjunction with a topical barrier-forming material without said vasoconstrictor.
- 2. (Currently Amended) A method for treating a puncture in a femoral artery resulting from a cardiac catheterization procedure in a patient, comprising:
- a) applying topically to the patient's skin over a catheter exit site a composition comprising an effective amount of a one or more vasoconstrictor, wherein the vasoconstrictor does not comprise a poly- β -1 \rightarrow 4 N-acetylglucosamine polymer or derivative thereof, and wherein the catheter exit site is contiguous with the catheter puncture in the femoral artery by 1-10 cm; and concurrently
- b) applying compression to the punctured vein or femoral artery, wherein a cessation or reduction of blood flow out of the breach or puncture in the femoral artery is achieved in 30%-50% less time than applying compression in conjunction with a topical barrier-forming material without said vasoconstrictor.
- 3. (Withdrawn Currently Amended) A method for inhibiting the formation of hematomas resulting from a cardiac catheterization procedure in a patient, comprising:

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a) applying topically to the patient's skin over a catheter exit site contiguous by

1-10 cm with a catheter puncture in a vein or artery a composition comprising an effective

amount of a one or more vasoconstrictor, wherein the vasoconstrictor does not comprise a

poly- β -1 \rightarrow 4 N-acetylglucosamine polymer or derivative thereof;

b) concurrently applying compression to the punctured vein or artery; and

c) recording the number of hematomas formed,

wherein the formation of hematomas is inhibited in comparison to applying

compression in conjunction with a topical barrier-forming material without said

vasoconstrictor.

4. (Previously Presented) The method of claim 1 or 2, wherein the

vasoconstrictor is endothelin, endothelin-1, epinephrine, adrenaline, metaraminol bitartrate,

dopamine HCl, isoproterenol HCl, norepinephrine, phenylephrine, serotonin, thromboxane,

norepinephrine, prostaglandin, methergine, oxytocin, isopreland U-46619, papaverine,

yohimbine, visnadin, khellin, bebellin, or nicotinate derivatives.

5. (Previously Presented) The method of claim 1 or 2, wherein the composition

further comprises an anti-fungal or antibacterial agent.

6. (Previously Presented) The method of claim 1 or 2, wherein the composition

further comprises collagen.

7. (Previously Presented) The method of claim 1 or 2, wherein the composition

further comprises a pharmaceutical carrier.

8. (Currently Amended) The method of claim 1 or 2, wherein the composition

is formulated as a gel, <u>a</u> solid, <u>a</u> liquid, <u>a</u> sponge, <u>a</u> foam, <u>a</u> spray, <u>an</u> emulsion, <u>a</u> suspension,

or a solution.

9. (Currently Amended) The method of claim 1 or 2, wherein the composition

further comprises a neutral liquid, a neutral gel or a neutral solid.

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10. (Original) The method of claim 9, wherein the composition further comprises a neutral solid and wherein the neutral solid is a gauze.

11. (Original) The method of claim 8, wherein the composition is in the form of a coating on a neutral solid.

12. (Original) The method of claim 11, wherein the neutral solid is a gauze.

13. (Previously Presented) The method of claim 1 or 2, wherein the barrier-forming material is a gauze.

14. (Currently Amended) The method of claim 1 or 2, wherein the composition further comprises a one or more coagulant selected from the group consisting of alpha 2 antiplasmin, alpha 1 antitrypsin, alpha 2 macroglobulin, aminohexanoic acid, aprotinin, a source of Calcium ions, calcium alginate, calcium sodium alginate, casein. Kinase II, chitin, chitosan, collagen, cyanoacrylates, epsilon-aminocaproic acid, Factor XIII, fibrin, fibrin glue, fibrinogen, fibronectin, gelatin, living platelets, metha crylates, PAI 1, PAI 2, plasmin activator inhibitor, plasminogen, platelet agonists, protamine sulfate, prothrombin, an RGD peptide, sphingosine, a sphingosine derivative, thrombin, thromboplastin, and tranexamic acid.

- 15. (Previously Presented) The method of claim 1 or 2, wherein the patient is a human.
- 16. (Currently Amended) The method of claim 1 or 2, wherein the composition applied is a film or a membrane.
- 17. (Original) The method of claim 16, wherein the film or membrane comprises a barrier-forming material.
- 18. (Currently Amended) The method of claim 1 or 2, wherein the composition is formulated as a mat, <u>a</u> string, <u>a</u> microbead, <u>a</u> microsphere, or <u>a</u> microfibril.

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19. (Currently Amended) The method of claim 1 or 2, wherein the composition

further comprises a one or more biodegradable material.

20. (Currently Amended) The method of claim 19, wherein the biodegradable

material is selected from the group consisting of a polyanionic polysaccharide, alginic acid,

collagen, a polypeptide, a polyglycolide, a polylactide, a polycaprolactone, dextran and a

copolymer of dextran, a polyglycolide, a polylactide, a polydioxanone, a polyestercarbonate,

a polyhydroxyalkonate, and a polycaprolactone, or and a copolymer thereof.

21. (Previously Presented) The method of claim 1 or 2, further comprising before

step (a) the step of administering to the patient an anticoagulant.

22. (Currently Amended) The method of claim 21, wherein the anticoagulant is

selected from the group consisting comprises one or more of coumadin, heparin, nadroparin,

asparin, or and a thrombolytic agent.

23. (Original) The method of claim 22, wherein the composition further

comprises protamine sulfate in an amount effective to neutralize heparin.

24. (Currently Amended) The method of claim 1 or 2, wherein the artery is the

femoral, radial, brachial, or axillary artery.

25. (Currently Amended) The method of claim 1 or 2, wherein the vein is the

femoral, internal jugular, or subclavian vein.

26. (Previously Presented) The method of claim 1 or 2, wherein the compression

is manual compression.

27. (Previously Presented) The method of claim 1 or 2, wherein the compression

is mechanical compression.

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28. (Previously Presented) The method of claim 1 or 2, wherein the compression

is applied to the vein or artery proximal of the puncture or breach.

29. (Previously Presented) The method of claim 1 or 2, wherein the compression

is applied at the site of application of the composition.

30. (Previously Presented) The method of claim 1 or 2, wherein the compression

is applied with a compression bandage.

31. (Previously Presented) The method of claim 1 or 2, further comprising,

repeating step (b).

32. (Original) The method of claim 31, wherein the rate is at least 10% greater

than applying compression in conjunction with a topical barrier-forming material without a

vasoconstrictor.

33. (Original) The method of claim 31, wherein the rate is at least 20% greater

than applying compression in conjunction with a topical barrier-forming material without a

vasoconstrictor.

34. (Original) The method of claim 31, wherein the rate is at least 30% greater

than applying compression in conjunction with a topical barrier-forming material without a

vasoconstrictor.

35. (Original) The method of claim 31, wherein the rate is at least 40% greater

than applying compression in conjunction with a topical barrier-forming material without a

vasoconstrictor.

36. (Original) The method of claim 31, wherein the rate is at least 50% greater

than applying compression in conjunction with a topical barrier-forming material without a

vasoconstrictor.

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- 37. (Previously Presented) The method of claim 1 or 2, wherein the vein or artery is breached or punctured by a catheter.
- 38. (Previously Presented) The method of claim 1 or 2, wherein the skin wound contiguous with the breach or puncture in the vein or artery is 10, 9, 8, 7, 6, 5, or 4 cm from the puncture in the vein or artery.
- 39. (Withdrawn Currently Amended) A method for decreasing the occurrence of localized vascular complications comprising:
- a) applying topically to the patient's skin over a wound contiguous with a breach or puncture in a vein or artery a composition comprising a one or more vasoconstrictor, wherein the vasoconstrictor does not comprise a poly- β -1 \rightarrow 4 N-acetylglucosamine polymer or derivative thereof;
 - b) concurrently applying compression to the breached or punctured vein or artery; and
 - c) recording the occurrence of localized vascular complications,

wherein an amount of the vasoconstrictor is effective to cause sealing of the breach or puncture in the vein or artery, reducing the rate of localized vascular complications in comparison to applying compression in conjunction with a topical barrier-forming material without a vasoconstrictor.

- 40. (Withdrawn) The method of claim 39, wherein the rate is 50% less than applying compression in conjunction with a topical barrier without a vasoconstrictor.
- 41. (Withdrawn) The method of claim 39, wherein the vein or artery is breached or punctured by a catheter.
- 42. (New) The method of claim 14, wherein the coagulant is alpha-2-antiplasmin, alpha-1-antitrypsin, alpha-2-macroglobulin, aminohexanoic acid, aprotinin, a source of Calcium ions, calcium alginate, calcium-sodium alginate, casein Kinase II, chitin, chitosan, collagen, cyanoacrylates, epsilon-aminocaproic acid, Factor XIII, fibrin, fibrin glue, fibrinogen, fibronectin, gelatin, living platelets, metha crylates, PAI-1, PAI-2, plasmin

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activator inhibitor, plasminogen, platelet agonists, protamine sulfate, prothrombin, an RGD peptide, sphingosine, a sphingosine derivative, thrombin, thromboplastin, or tranexamic acid.